

Simirnov, K.A.

2390. DAMPNES OF FILLED LAYER OF PEAT BOG. Simirnov, K.A. (Tsf.  
Pren. (Pent Ind., Moscow), Feb. 1954, 20, 21). Readings taken in different  
bogs are summarized and an attempt is made to correlate dampness, depth of  
subsoil water and other factors. The degree of decomposition and the type of  
peat are important factors. (L).

SMIRNOV, K.A., inzhener.

Effect of the stumpiness of peat deposits on cyclical yield of cut peat.  
Torf.prom. 31 no.3:21-22 '54. (MLRA 7:6)

1. Shaturskoye torfopredpriyatiye. (Peat industry)

OREKHOV, K.A.; MAKSIMOV, G.M.; NESLUKHOVSKIY, S.K.; ROZDYALOVSKAYA,  
V.V.; SMIRNOV, K.A.; VEYS, L.V.; ANTYUFYEVA, A.M.; KURGANOV,  
M.A.; STEPANOVA, Ye.A.; VOSTRIKOVA, A.M.; SAKHAROVA, V.V.;  
POD"YACHIKH, P.G.; OREKHOV, K.A., otv. za vypusk; CHUPROVA,  
Yu.S., red.; PYATAKOVA, N.D., tekhn. red.

[Results of the 1959 All-Union population census; the Kazakh  
S.S.R.] Itogi Vsesoiuznoi perepisi naseleniia 1959 goda;  
Kazakhskaiia SSR. Moskva, Gosstatizdat, 1962. 201 p.

(MIRA 16:4)

1. Russia (1923- U.S.S.R.)TSentral'noye statisticheskoye  
upravleniye.

(Kazakhstan--Census)

SMIRNOV, K.A., starshiy inzhener

Improvement of the schematic for the local control of switches.  
Avtom.telem.i sviaz' 4 no.8:28-29 Ag '60. (MIRA 13:8)

1. Giprottranssignalsvyaz'.  
(Railroads--Switching)

SMIRNOV, K., inzh.-podpolkovnik

Inspection is a creative activity. Av. i kosm. no.1:62-65  
Ja '66. (MIRA 19:1)

SMIRNOV, K.A.

Redesigning the clamping unit of the MT-530-L scutching machine.  
Obm. tekhn. opyt. [MLP] no.4:13-14 '56. (MIRA 11:10)  
(Textile machinery)

SMIRNOV, K. (Ivanova); SANAMYAN, S. (Baku); VOROB'YEV, I. (L'vov); KOVSHAROV, I.  
(Khadyzhensk, Krasnodarskiy kray).

Visual methods of teaching are pledge of success. Pozh. delo 4 no.5:  
10-12 My '58. (MIRA 11:5)

(Fire prevention--Study and teaching)

SMIRNOV, K. (Ivanovo)

The HKF-54 mounted pumps used in rural fire brigades. Pozh.delo  
4 no.9:17-18 S '58. (MIRA 11:9)

1.Nachal'nik pozharno-ispytatel'noy stantsii.  
(Fire engines)



ZAGOROVSKIY, L.; SMIRNOV, K.

Reliable system of fire extinction. Pozh.delo 5 no.8:25-26  
Ag '59. (MIRA 12:12)

1. Nachal'nik Upravleniya pozharney okhrany Ivanovskogo  
oblispolkoma (for Zagorovskiy). 2. Nachal'nik pozharно-ispytatel'-  
noy stantsii Ivanovskogo oblispolkoma (for Smirnov).  
(Fire sprinklers)

SMIRNOV, K. (Ivanovo)

Fireproofing of drive belts. Pozh.delo 6 no.1:5 Ja '60.

(MIRA 13:5)

(Ivanovo--Textile factories--Fires and fire prevention)

(Fireproofing of fabrics)

SMIRNOV, K.

Efficiency promoters in Ivanovo Province. Pozh. delo 7 no. 1:15  
Ja '60. (MIRA 14:2)

1. Nachal'nik pozharно-ispytatel'noy stantsii, Ivanovo.  
(Ivanovo Province—Textile industry—Fire and fire prevention)

SMIRNOV, K.

New equipment calls for new fire regulations. Pozh.delo 7  
no. 8:11 Ag '61. (MIRA 14:8)

1. Nachal'nik pozhar'no-ispytatel'noy stantsii, g. Ivanovo.  
(Textile factories—Fires and fire prevention)

SHIRNOV, K. A.

Assoc., Central Sci. Res. Electrical Lab., Min. Elec. Power Stations, -1950-.  
Cand. Technical Sci.

"Stability of Excitation Control in Generators With Rising Characteristics,"  
Elektrichestvo, No. 1, 1950;

"On the Projected Standard for Nominal Voltages of Stationary Electric Networks,"  
ibid., No. 1, 1950.

SMIRNOV, K. [A.] and IVANISHCHENKO, F. D.,

"Development of the Single Power System in the USSR, its Role in the National Economy and Its Economic Index."

report presented at the 14th Sectional Meeting of the World Power Conference, Montreal, Canada, 7-12 Sep 58.



SMIRNOV, K.A.

Principal technological and economic rules for voltage schemes in  
electric networks. Elektroenergetika no.4:3-19 '61. (MIRA 14:8)

(Electric power distribution)



SMIRNOV, K.A., kand.tekhn.nauk

Choice of an efficient composition of connected electrical units. Elektrichestvo no.1:12-15 Ja '62. (MIRA 14:12)

1. Energeticheskiy institut imeni Krzhizhanovskogo.  
(Electric power distribution)  
(Electric power plants)

SMIRNOV, K.A., kand.tekhn.nauk (Moskva)

Calculation of economical distribution of real and reactive  
power in an electric power system with given limitations in its  
operation. Elektrichestvo no.3:6-9 Mr '62. (MIRA 15:2)  
(Electric power distribution)

SMIRNOV, K.A., kand.tekhn.nauk (Moskva)

Phasor method for calculating currents expressed as the product  
of two sinusoidal quantities. Elektrichestvo no.7:19-21 JI '62.  
(MIRA 15:7)

(Electric networks)

SMIRNOV, K. A.; GORNSHTEYN, V. M.; SOVALOV, S. A.; USOV, S. V.

"The Economic Principles Governing Power System: Operation Schedules in the  
U.S.S.R."

report submitted for Intl Conf on Large Electric Systems, 20th Biennial Session,  
Paris, 1-10 Jun 64.

SMIRNOV, K.A., kand. tekhn. nauk

Fixed parameter and relative base increment methods for  
calculating the operational efficiency of a power system.  
Elektrichestvo no.1:35-38 Ja '64. (MIRA 17:6)

1. Energeticheskiy institut imeni Kuzhichanovskogo.

NAUMOV, P.I.; SMIRNOV, K.A.; ARLOV, M.N.

Accelerated study of the operational quality of telegraph communications.  
Elektrosvyaz' 18 no.7:69-73 JI '64. (MIRA 17:10)

L 46-30-66 EWT(1) TG

ACC NR: AR6004347

SOURCE CODE: UR/0274/65/000/009/V025/V025

AUTHOR: Smirnov, K. A.

6  
B

REF SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 23, 1964, -168-173

TITLE: Reliability of telegraphic communication in the face of circuit cutouts of short duration

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 9V191

TOPIC TAGS: telegraph system, circuit reliability, circuit failure

TRANSLATION: An interpretation of the concepts of interruption and reliability in telegraphic communication is given. Procedures for the calculation of communication reliability with circuit breaks in the network are shown for both fixed and switched channels. It is concluded that inasmuch as the parameter of communication reliability does not take into account the functionability of the circuit at the time of transmission, it is advisable to use the parameter for communication reliability in evaluating the latter. For a fixed channel,  $R=0.997$  can be used (in the worst case) as a value communication reliability with interruptions in the network, while for a switched channel the value would be on the order of  $R=0.98$ . B. B.

SUB CODE: 17,14/

SUBM DATE: none

UDC: 621.394

Card 1/1 mjs

SMIRNOV, K.A., kand. tekhn. nauk

Absolute and relative optima in the selection of an economical composition of units in a power system. Elektrichestvo no.6:18-20 Je '65. (MIRA 18:7)

1. Energeticheskiy institut imeni G.M.Krzhizhanovskogo.



ACC NR: AT6022305

the probability of data transmission cutoff is already great for channels with an initial quality estimated by  $R_p = 10^{-3}$  for block length  $m = 25$  combinations. It is concluded that the use of systems with  $m > 25$  characters and an error probability  $R_p = 10^{-3}$  is not practical. Orig. art. has: 10 formulas and 1 figure.

SUB CODE: 09<sup>17</sup>/ SUBM DATE: 24Mar66/ ORIG REF: 006

Card 2/2

MANCHAKOV, V.M.; SMIRNOV, K.A.

Knotters of the closed type. Bumagodel mash. no.8:7-16 160.

(MIRA 14:3)

(Papermaking machinery)

SMIRNOV, K.A.; ZIGBERMAN, D.I.

Measuring the pressure pulsation of a pulp suspension against the  
sieve in sorting knot screens. Bumagodel.mash. no.9:26-32 '61.  
(MIRA 15:1)

(Papermaking machinery)

SMIRNOV, K. D.

PA162T22

USSR/Electricity - Generators  
Central Heating

Jul 50

"Use of Heat Released by Hydroelectric Generators," K. D. Smirnov, Engr

"Elek Stants" No 7, pp 21-22

Describes present system for cooling hydroelectric generators whereby heat is wasted. Proposes to introduce hot air pump capable of supplying about 600 people with central heating from this source and points out economic advantages of such system. Editor proposes experiments on this scheme be carried out at a suitable hydroelectric power station.

162T22

SMIRNOV, K.D.; SIDYAKOV, P.V., kandidat tekhnicheskikh nauk, redaktor;  
PUL'KINA, Ye.A., tekhnicheskiiy redaktor.

[Heating and ventilation of hydroelectric power stations] Teplosnab-  
zhenie i ventiliatsiia gidroelektrostantsii. Leningrad, Gos. izd-vo  
lit-ry po stroit. i arkhitekture, 1953. 163 p. (MLRA 7:11)  
(Hydroelectric power stations--Heating and ventilation)

L 3179-66 ETC(m) WW  
ACCESSION NR: AP5015353

UR/0286/65/000/009/0098/0099  
681.14

AUTHOR: Chekalov, D. N.; Mulyar, L. G.; Krasikov, V. I.; Miroshnichenko, A. K.;  
Smirnov, N. Ye.; Khevfets, A. I.; Smirnov, K. E.; Obukhov, Yu. A.; Vorontsov, A. M.;  
Dyakonov, O. M.; Dubro, G. B.; Alipov, A. N.

TITLE: Electronic instrument for measuring velocity, distance traversed, and time.  
Class 42, No. 170776

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 98-99

TOPIC TAGS: tellurometer, radio rangefinder, geodetic instrument

ABSTRACT: An Author Certificate, issued for a device which measures velocity, distance traversed, and time, combines a high-precision tellurometer, a phase recorder equipped with a unit for converting sinusoidal signals to pulsed signals, and a unit for measuring phase differences. Readings are made visually. The circuit connections of the device, consisting of a series of computer-type modules, are described in detail. [SP]

ASSOCIATION: none

Card 1/2

SMIRNOV, K.F., elektrosvaishchik; ALEKSANDROV, M.A., slesar.

Device used for simultaneous heating of water and sand in concrete mixers. Rats. i izobr. predl. v stroi. no.5:8-9 '58.

(MIRA 11:6)

1. Stroitel'nyy uchastok-2 tresta Baltransstroy (for Smirnov),  
Riga, ul. Iachplesha, d. 36.  
(Heating plants) (Concrete mixers)

GOROKHOVSKIY, A.D.; SMIRNOV, K.I.

Manufacturing ceramic panels composed of 18-slot stone.  
Stroi. mat. li no.7:1-5 J1 '65. (MIPA 18:2)

1. Glavnyy inzh. Podol'skogo zavoda stenyvnykh materialov i  
konstruktsiy (for Gorokhovskiy).



SMIRNOV, K.I.; RAVINSKIY, M.I.

Cold welding of contact cables. Elek.i tepl.tiaga 3 no.12:  
32-34 D '59. (MIRA 13:5)

1. Nachal'nik sluzhby elektrifikatsii i energeticheskogo khozyaystva  
Oktyabr'skoy dorogi (for Smirnov). 2. Nachal'nik Leningrad-  
Finlyandskogo uchastka energosnabzheniya (for Ravinskiy).  
(Electric cables--Welding)

*Smirnov*

*Ravinskiy*

ALEKSEYEV, G.P.---(continued). Card 2.

[Volga Hydroelectric Power Station; a technical report on the design and construction of the Volga Hydroelectric Power Station (Lenin), 1950-1958] Volzhskaya gidroelektrostantsiya; tekhnicheskii otchet o proektirovanii i stroitel'stve Volzhskoi GES imeni V.I.Lenina, 1950-1958 gg. V dvukh tomakh. Moskva, Gosenergoizdat. Vol.2.[Organization and execution of construction and assembly work] Organizatsiya i proizvodstvo stroitel'no-montazhnykh rabot. Red. toma: N.V.Razin, A.V.Arngol'd, N.L.Triger. 1962. 591 p. (MIRA 16:2)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Razin).

(Volga Hydroelectric Power Station (Lenin)--Design and construction)

SMIRNOV, K.I.

Evaporation from soil in Kustanay Province. Trudy GGI no.104:  
37-59 '63. (MIRA 16:7)  
(Kustanay Province---Soil moisture) (Evaporation)

SMIRNOV, K.I.; VOLITSUN, I.B.

Using the water balance method to calculate the inflow of ground  
waters into lakes. Trudy GGI no.104:75-86 '63. (MIRA 16:7)  
(Kustanay Province-Lakes)

PAVLOV, S. T.; SMIRNOV, K. K.

Frostbite Prophylaxis by Means of Greases.

Voyennoye-sanitarnoye Delo. 1942, 11-12, 37-50

KUZNETSOV, V.I., polkovnik med. sluzhby; BARONOV, V.A., polkovnik med. sluzhby;  
TITOV, A.I., polkovnik med. sluzhby, dots.; FIALKOVSKIY, V.V., polkovnik  
med. sluzhby; SMIRNOV, K.K., polkovnik med. sluzhby, kand. med. nauk;  
DOVZHENKO, G.I., polkovnik med. sluzhby; DIVNENKO, P.G., polkovnik med.  
sluzhby; GORYUSHIN, G.S., podpolkovnik med. sluzhby; SHCHERBEKOV, N.I.  
podpolkovnik med. sluzhby; ZHUK, Ye. G., podpolkovnik med. sluzhby; BUTOMO,  
N.V., mayor med. sluzhby; PREOBRAZNEFSKIY, P.V., mayor med. sluzhby;  
TIKHONOV, K.B., mayor med. sluzhby

Clinical manifestations in subjects exposed to prolonged ionizing ir-  
radiation. Voen. med. zhur. no.2:40-43 F '57 (MIRA 12:7)

(RADIATIONS, effects,

clin. manifest. in subjects exposed to prolonged ionizing  
irradiation (Rus))

SMIRNOV, K.K.

Ensure the success of the last year of the seven-year plan. Stroi.  
truboprov. 10 no.9:1-3 S '65. (MIRA 18:9)

1. Zamestitel' predsedatelya Gosudarstvennogo proizvodstvennogo  
komiteta po gazovoy promyshlennosti SSSR.

SMIRNOV, K.K.

All-Union Public Inspection of the Quality of Construction and  
the Competition for the Best Construction According to  
Standard and Economical Designs. Stroi.truboprov. 10 no.10-2-3  
0 '65. (MIRA 18:10)

1. Predsedatel' tsentral'noy komissii Gosudarstvennogo  
proizvodstvennogo komiteta po gazovoy promyshlennosti  
SSSR po provedeniyu Vsesoyuznogo obshchestvennogo smotra  
kachestva stroitel'stva i konkursa na luchsheye stroitel'-  
stvo po tipovym i ekonomichnym projektam.



KURMEY, Yevgeniy Stepanovich; KONTSOV, Aleksandr Grigor'eyvich; SMIRNOV, K.K., otvetstvennyy redaktor; USHAKOV, K.Z., otvetstvennyy redaktor; GRISHAYENKO, M.I., redaktor izdatel'stva; SABITOV, A., tekhnicheskiiy redaktor

[Ventilation of mines in the Kuznetsk Basin] Provetriivanie shakht Kuzbassa. Moskva, Ugletekhizdat, 1957. 173 p. (MLRA 10:9)  
(Kuznetsk Basin--Mine ventilation)

SMIRNOV, K.K.; GOLDOBIN, B.T. (Kuybyshev)

Bibliography. Stroi. trub. 9 no.7:36-38 J1 '64.

(MIRA 17:11)

SMIRNOV, K.K., inzh.

Supply gas to the capital of White Russia ahead of time. Stroi.  
truboprov. 5 no.7:1-3 J1 '60. (MIRA 13:9)  
(Gas, Natural--Pipelines)

SMIRNOV, K.K., inzh.

Technological progress in the construction of pipelines. Stroi.  
truboprov. 5 no.10:1-3 0 61. (MIRA 14:10)  
(Pipelines)

SMIRNOV, K.K.

Prepare well and in good time for the fall and winter period.  
Stroi. truboprov. 7 no.8:3-5 Ag '62. (MIRA 15:9)

1. Zamestitel' nachal'nika Glavnogo upravleniya gazovoy  
promyshlennosti SSSR.  
(Pipelines—Cold weather conditions)

SMIRNOV, K.K.

Tasks for construction workers in the Main Administration of the Gas Industry of the U.S.S.R. in the fourth year of the seven-year plan. Stroi. truboprov. 7 no.1:1-2 Ja '62. (MIRA 16:7)

1. Zamestitel' nachal'nika Glavnogo upravleniya gazovoy promyshlennosti SSSR.

(Gas, Natural--Pipelines)

SMIRNOV, K.K.

Unsuccessful book. Stroi. truboprov. 8 no.8:33-36 Ag '63.  
(MIRA 16:11)

SMIRNOV, K. K. SHPAKOVSKIY, V. I.

"The construction of gas transmission pipeline Bukhara - Urals."

Report to be submitted at the 9th Intl. Gas Conference, <sup>the</sup> Hague,  
1-4 Sept 1964.



OSIPYAN, V.T.; STEPANOV, M.K.; GRABOVSKIY, B.S.; SMIRNOV, K.K.; KAZHDAN, V.B.; MASLIY, L.K.; DUNAYEVA, I.D.

Comparative effectiveness of hexamethylenebenzamide and acetyl-tetrahydroquinoline as protective agents against fleas in humans.  
Med. paraz. i paraz. bol. 32 no.5:551-553 S-0'63 (MIRA 16:12)

1. Iz Voenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

SMIRNOV, K. L. (~~SMIRNOV~~ Oblast' Conference of veterinary specialists.), AKATOV, V. A.  
(Professor, Doctor of Veterinary Sciences).

"Training of specialists on artificial insemination of animals in the  
Voronezh Zooveterinary Institute.

Veterinariya, Vol. 38, No. 4, 1961.

L 08550-67 EWT(1) JK

ACC NR: AP6032118

(A,N)

SOURCE CODE: UR/0346/66/000/010/0024/0026

AUTHOR: Smirnov, K. L. (Chief of veterinary section); Konovalov, A. I.  
(Director of Vologodskaya oblast' veterinary laboratory)

ORG: none

TITLE: Experience in elimination of brucellosis<sup>b</sup> in cattle

SOURCE: Veterinariya, no. 10, 1966, 24-26

TOPIC TAGS: brucellosis, brucella, bovine brucellosis, animal disease  
therapeutics

ABSTRACT: No new brucellosis foci have been reported in the Vologodskaya oblast since 1963 as a result of a comprehensive eradication program including vaccination of both adult cows and heifers in safe and threatened areas, and isolation and slaughter of infected animals. As a result of prompt diagnosis and vaccination of adult cattle, an immune livestock population has been created around unsafe areas and the spread of brucellosis in cattle has been stopped. Abortions in cows and heifers in one-third of the safe farms two to three months after vaccination are mostly attributed to the brucella vaccine, since no aggravation of brucellosis cases followed these abortions. [W.A. 50]

SUB CODE: 06/ SUBM DATE: none

Card 1/1

UDC: 619:616.981.42-084]:636.22/28

YAKUBOVICH, A.Ya.; SMIRNOV, K.M.; DUBOV, S.S.

Synthesis of vinyl monomers. Fluoroacetylene, its preparation  
and properties. Khim.nauka i prom. 4 no.4:551-552 '59.

(MIRA 13:8)

(Acetylene)

SMIRNOV, K. M.; GINSBURG, V. A.; YAKUBOVICH, A. Ya.:

Reaction of fluoroacetylene with mercury salts. Zhur. VKHO 8  
no.2:231-232 '63. (MIRA 16:4)

(Acetylene) (Mercury salts)

SMIRNOV, K. M.  
C-1

Rendering swimming-pool waters harmless with silver nitrate. G. S. Gan and K. M. Smirnov. *Vostochnykh Sanit. Tekh.* 15, No. 12, 5(1910). --Lab. expts. showed high bactericidal effect for  $AgNO_3$ ; similar results were observed on treating the water in the pool with 0.5 mg. l. This was the min. necessary to show the presence of Ag several days later. In practice it was found expedient to treat 400 cu. m. of water, which is changed every 7 days, twice during this period, with a total of 300 g. The procedure has been successfully used for 2 yrs. B. G.

ASAC - METALLURGICAL LITERATURE CLASSIFICATION

SMIRNOV, K.M.; BAKULIN, S.A.; GOLOVINA, L.L.; ZAK, E.Ya.; KOGAN, S.D.

Effect of competitive athletics on gas exchange, pulse rate, arterial pressure and work capacity in humans. Fiziol.zhur. 45 no.3:289-294  
'59. (MIRA 12:11)

1. From the Postgraduate Medical Institute, Leningrad, and the Central Institute of Physical Culture, Moscow.

(ATHLETICS,

blood pressure, pulse rate, resp. & work capacity  
in athletes (Rus))

(BLOOD PRESSURE,

in athletes (Rus ))

(RESPIRATION,

same)

(WORKING,

capacity in athletes (Rus))

(PULSE,

in athletes (Rus))

SMIRNOV, K. M.

37574. K Istorii <sup>1</sup>techebnoy Fizicheskoy Kul'tury V Rossii. Sov. Vracheb.  
Sbornik, Vyp. 17, 1949, S. 34-36

SO: <sup>1</sup>Istopsis' Zhurnal'nykh Statey, Vol. 37, 1949



SMIRNOV, K.M., podpolkovnik meditsinskoy sluzhby

Diagnostic significance of some functional tests. Voen.-med.zhur.  
no.6:45-51 Je '51. (MLRA 9:9)  
(DIAGNOSIS)

SMIRNOV, K. M.

"Conditioned Reflex Mechanisms of Regulation of Physiological Functions During Physical Exercises." Dr Med Sci, Inst of Physiology imeni I. P. Pavlov, Acad Sci USSR (Apr-Jun 54). (Vest AK Nauk, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

*Smirnov, K.N.*  
MATYUSHKINA, NA.; SMIRNOV, K.N.; TRUBITSYNA, G.A.

Physiological analysis of thermoregulation of the body during  
exposure to cold combined with physical exercise. Opyt izuch.reg.  
fiziol.funk.no.3:231-241 '54. (MLRA 8:12)

1. Fiziologicheskaya laboratoriya Kursov usovershenstvovaniya  
ofitserov po fizicheskomu obrazovaniyu i Laboratoriya ekologicheskoy  
fiziologii Instituta fiziologii imeni I.P.Pavlova Akademii nauk SSSR.  
(BODY TEMPERATURE) (COLD--PHYSIOLOGICAL EFFECT) (EXERCISE)

SMIRNOV, K.M.

Physiological study of the condition of athletes preceding action.  
Opyt izuch.reg.fiziol.funk. no.3:274-310 '54. (MLRA 8:12)

1. Krasnoznamenny voyenny institut fizicheskoy kul'tury i sporta  
imeni V.I.Lenina i Laboratoriya ekologicheskoy fiziologii Instituta  
fiziologii imeni I.P.Pavlova Akademii nauk SSSR.  
(METABOLISM) (ATHLETES)

*Smirnov, K.M.*  
LIBERMAN, V.B.; MAKAROVA, A.R.; SMIRNOV, K.M.; TRUBITSYNA, G.A.

Gas exchange during restoration following brief but very intensive physical exercise. Opyt izuch.reg.fiziol.funk. no.3:311-322 '54.  
(MIRA 8:12)

1. Laboratoriya ekologicheskoy fiziologii Instituta fiziologii imeni I.P.Pavlova Akademii nauk SSSR i Leningrasskii nauchno-issledovatel'skiy institut fizicheskoy kul'tury  
(RESPIRATION) (EXERCISE)

FD-2250

SMIRNOV, K. M.  
USSR/Biology - Physiology

Card 1/1      Pub 17-1/20

Author : Smirnov, K. M.; Matyushkina, N. A.

Title : Physiologic characteristics of the pre-starting state. Report IV: The effect of preliminary muscular work on athletes under various prestarting state conditions

Periodical : Byul. eksp. biol. i med. 3, 3-5, Mar 1955

Abstract : Investigated the relative effects of muscular activity and the quiescent state on the response of athletes to the starting signal. In connection with the above, studied variations in the amount of oxygen consumption in a group of trained athletes under various conditions in the laboratory and gymnasium, before training and before athletic contests. Six references, all USSR, 4 since 1940.

Institution: The Military Institute of Physical Culture and Sport imeni <sup>V. I.</sup>~~B. L.~~ Lenin

Submitted : 10 March 1954. Presented by V. N. Chernigovskiy, Member of the Academy of Medical Sciences USSR

FD-2418

SMIRNOV, K M  
USSR/Medicine

Card 1/1      Pub 17-1/21

Author : Smirnov, K. M.

Title : ~~Physiological Characteristics of prestart conditions~~

Periodical : Byul. eksp. biol. i med. 39, 3-7, Jan 1955

Abstract : The level of the basic metabolism varies widely in relation to functional conditions of the central nervous system and changes which are influenced by various conditioned reflex irritations, depending on the aggregate of irritation from the outer and inner media. Author studied the prestart signal stimulation changes of the basic metabolism of 27 athletes and concludes that since the organism undergoes periodic changes during the 24 hour day, it is important to know the stereotyped 24 hour rhythm of the athletes. It is known that from physical exercise arise simultaneous increases in the inhibitory and stimulating processes. This brings about concentration of stimulation at the critical time and emergence of prestart reactions of the organism immediately before the start of the event. 2 references, 2 USSR. 1 since 1940. graphs

Institution: Military Institute of Physical Culture and Sport imeni V. I. Lenin

Submitted : March 10, 1954

FPIR 0273/67

47. USSR

"Medical Engineering"

Moscow, Nauka i Zhizn', No 1, 1967, pp 42-44

Abstract: This article contains a description of some Soviet medical instruments and apparatus developed in the All-Union Scientific Research Institute of Medical Instrument Building, Ministry of Health USSR. The instruments include those controlled by bioelectric currents, so that the functions which these instruments perform, including x-ray photography, replacement of heart and lungs, functioning as artificial limbs or hands, etc., are synchronized with the flow of the life processes being observed or replaced. In particular, the "Biopul's" machine partially replaces the human heart during an operation or recovery from a heart attack. This device can control itself or be synchronized with the heart of the patient, using the electric potentials arising during operation of the heart. Among the other instruments described are: an "x-ray" machine using audio frequency waves in place of x-rays; a highly automated UHF-therapy machine; an artificial respiration machine which can be synchronized with the breathing of the patient or may operate independently, allowing precise measurement and control of quantity and rate of air supply to the lungs. Several photographs of these instruments accompany the original article.

1/1



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FPIR 0273/67

10 22 67

46. USSR

UDC: 614.2/615.47]:[519.24/681.14

*penel*  
SMIRNOV, I. P., All-Union Scientific Research Institute of Medical Instrument Building, Moscow

"On Use of Mathematical Methods and Computer Equipment in Public Health and the Medical Industry"

Moscow, Meditsinskaya Promyshlennost' SSSR, No 12, Dec 66, pp 10-16

Abstract: After a general introduction devoted to the possible uses of mathematical methods and computer equipment in medicine and public health, the author illustrates this potential with the example of using mathematics and computers to substantiate the optimum network of medical establishments and their structure, and to select a solution in developing medical equipment. The author treats both of these subjects very generally and briefly, offering in the one case an approximate method for calculating the number of beds in a hospital as a function of bed cost, on the one hand, and the cost to society of delays in treatment because of hospital overcrowding. In the second case, he discusses the use of mathematics and computers in designing heart pacemakers with feedback that would change their pulse frequency as a function of load (respiration). In conclusion the author discusses the new science of medical systems engineering.

1/1

FPIR 0273/67

47. USSR

"Medical Engineering"

Moscow, Nauka i Zhizn', No 1, 1967, pp 42-44

Abstract: This article contains a description of some Soviet medical instruments and apparatus developed in the All-Union Scientific Research Institute of Medical Instrument Building, Ministry of Health USSR. The instruments include those controlled by bioelectric currents, so that the functions which these instruments perform, including x-ray photography, replacement of heart and lungs, functioning as artificial limbs or hands, etc., are synchronized with the flow of the life processes being observed or replaced. In particular, the "Biopul's" machine partially replaces the human heart during an operation or recovery from a heart attack. This device can control itself or be synchronized with the heart of the patient, using the electric potentials arising during operation of the heart. Among the other instruments described are: an "x-ray" machine using audio frequency waves in place of x-rays; a highly automated UHF-therapy machine; an artificial respiration machine which can be synchronized with the breathing of the patient or may operate independently, allowing precise measurement and control of quantity and rate of air supply to the lungs. Several photographs of these instruments accompany the original article.

1/1

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001651520013-7"

SMIRNOV, K.M.; SKLYARCHIK, Ye.L.

Peculiarities of salivation in man in various degrees of acclimatization to a hot climate. Fiziol.zhur. 43 no.5:389-392 My '57. (MIRA 10:12)

1. Krasnoznamenny voyenny institut fizicheskoy kul'tury i sporta imeni V.I.Lenina, Leningrad.  
(CLIMATE.

acclimatization to hot climate, eff. on salivation (Rus))  
(SALIVATION, SALIVARY GLANDS, physiology  
eff. of hot acclimatization (Rus))

OSIPOVA, O.V.; SMIRNOV, K.M.

Stages of exercise during the formation of a given frequency of  
respiratory movements in man. Fiziol. zhur. 46 Mr '60. (MIRA 14:7)

1. From the State S.M.Kirov Institute of Medical Institute for  
Medical Improvement, Leningrad.  
(RESPIRATION)

SMIRNOV, K.M., prof.

Physiological basis for a work and rest schedule for adolescents.  
Gig. i san. 26 no.2:34-37 F '61. (MIRA 14:10)

1. Iz Leningradskogo instituta usovershenstvovaniya vrachey imeni  
S.M.Kirova.

(INDUSTRIAL HYGIENE)

(CHILDREN--EMPLOYMENT)

SMIRNOV, K.M.; OSIPOVA, O.V.; ASAFOV, B.D.

Physiological mechanism of so-called voluntary respiration control in man; a study of respiration exercises. [Trudy] GIDUV no.35:7-15\*62. (MIRA 16:6)

1. Kafedra vrachebnogo kontrolya za fizicheskim vospitaniyem i lechebnoy fizkul'tury Leningradskogo gosudarstvennogo ordena Lenina instituta dlya usovershenstvovaniya vrachey, laboratoriya fiziologii truda (zav. - dotsent K.S. Tochilov) Leningradskogo gosudarstvennogo universiteta, fiziologicheskaya laboratoriya (zav. - prof. A.M.Zimkina) Leningradskogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov.

(RESPIRATION) (CONTIDIONED RESPONSE)

SMIRNOV, K.M.; OSIPOVA, O.V., ASAFOV, B.D.

Physiological mechanism of the first stage. [Trudy] GIDUV  
no.35:16-26'62. (MIRA 16:6)

1. Kafedra vrachebnogo kontrolya za fizicheskim vospitaniyem  
i lechebnoy fizicheskoy kul'tury Leningradskogo gosudarstvenno-  
go ordena Lenina instituta dlya usovershenstvovaniya vrachey,  
laboratoriya fiziologii truda (zav. dotsent K.S.Tochilov)  
Leningradskogo gosudarstvennogo universiteta i fiziologiches-  
kaya laboratoriya (zav. prof. A.M.Zimkina) Leningradskogo in-  
stitutu ekspertizy trudosposobnosti i organizatsii truda  
invalidov.

(EXERCISE) (CONDITIONED RESPONSE)

SMIRNOV, K.M.; BASKOVICH, B.L.; OSIPOVA, O.V.; PARASHIN, Ye.V.

Effect of different respiration exercises on changes in the  
timing of motor reactions. [Trudy] GIDUV no.35:44-51'62. (MIRA 16:6)  
(RESPIRATION) (MOTION STUDY)



DOBROVOL'SKIY, V.K., prof.; SMIRNOV, K.M., prof.

On the 40th anniversary of O.A. Sheinberg's medical and  
scientific activities. Vop. kur., fizioter. i lech. fiz. kul't.  
27 no.4:377 J1-Ag'62 (MIRA 16:11)

\*

SMILOV K.M.

Medical and pedagogical control; tasks, methods, contents and  
characteristics of organization. [Trudy] GIDUV no.35:55-78'62  
(MIRA 16:6)  
(SPORTS MEDICINE) (PHYSICAL EDUCATION AND TRAINING)

SMIRNOV, K.M., prof., osv. red.; DAN'KO, Ya.I., prof., red.;  
ZIMKIN N.V., prof., osv.

[Coördination of motor and vegetative functions in human  
muscular activity] Koordinatsiya dvigatel'nykh i vegetativnykh  
funktsii pri myshechnoi deyatelnosti cheloveka. Moskva,  
Nauka, 1965. 137 p. (MIRA 18:12)

1. Akademiya nauk SSSR. Ob'yedinenyy nauchnyy sovet "Fizio-  
logiya cheloveka i zhivotnykh." 2. Gosudarstvennyy institut  
fizicheskoy kultury im. P.F.Lesgafta, Leningrad (for Zimkin).
3. Pervyy Meditsinskiy institut im. I.P.Pavlova, Leningrad  
(for Dan'ko). 4. Gosudarstvennyy institut dlya usovershen-  
stvovaniya vrachey im. S.M.Kirova, Leningrad (for Smirnov).

SMIRNOV, K.M. (Leningrad)

Reviews and bibliography. Fiziol.zhur. 51 no.11:1381-1382  
N '65. (MIRA 18:11)

SMIRNOV, KONSTANTIN NIKOLAEVICH

Universal'nyi teodolit Vil'da. Laboratornye o polevye ispytaniia; rukovodstvo k rabote. Leningrad, 1931. 1116 p. illus.

Added t. p. and table of contents in English; summary in English.

Bibliography: p. 111.

Universal theodolite "Wild".

Laboratory and field tests; instructions for work.

DLC: TA575.S55

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

SMIRNOV, KONSTANTIN NIKOLAEVICH

Konstruktsii i detali astronomo-geodezicheskikh instrumentov. Moskva, 1937.  
200 p. illus.

At head of title: Voenno-inzhenernaia akademiia RKKA imeni V. V. Kuibysheva.

Bibliography: p. 175

Designs and elements of astronomical geodetic instruments.

DLC: TA562.S66

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress,  
1953.

SMIRNOV, K.N., professor.

Investigation of optical theodolites T.B. 1 and OT-10 and of the  
tacheometrical theodolite TT-50. Trudy MIIT no.80/81:434 '55.  
(Theodolites) (MLRA 9:8)

KARSLIYEV, S.G.; SMIRNOV, K.P.

Regulation of the batch length on GD-12 combing machines. Izv.  
vys. ucheb. zav.; tekhn. teks. prom. no.6:34-38 '65.

(MIRA 19:1)

1. Leningradskiy institut tekstil'noy i legkoy promyshlennosti  
imeni S.M. Kirova. Submitted March 12, 1965.



SMIRNOV, K.P.

Processing of staple rayon blended with cotton. Tekst.prom.  
20 no.8:24-26 Ag '60. (MIRA 13:9)

1. Glavnyy inzhener fabriki "Vozrozhdeniye."  
(Rayon spinning)

SMIRNOV, K. P.

Cand Tech Sci - (diss) "Study of several problems of spinning of viscose staple fiber in mixture with cotton." Leningrad, 1961. 18 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Textile Inst imeni S. M. Kirov); 150 copies; price not given; (KL, 5-61 sup, 193)

SMIRNOV, K.P.

Explosion of gasoline vapors in tanks caused by static electricity discharges. Sbor. rab. pozh.-ispyt. sta. no.3:59-60 '63.

(MIRA 17:7)

1. Leningradskaya pozharo-ispytatel'naya stantsiya.

L 18857-63  
ACCESSION NR:

AP3006180

EWP(q)/EWT(m)/BDS

AFFTC/ASD JD/WB  
S/0080/63/036/007/1477/1482

AUTHORS: Balezine, S. A.; Smirnov, K. N.

TITLE: Effect of alloying admixtures upon the diffusion of steels in mineral acids

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 7, 1963, 1477-1482

TOPIC TAGS: alloying admixtures of steels, mineral acids, sulfuric acid, hydrochloric acid, chromium, nickel, copper, steel, alloy steels

ABSTRACT: Authors studied the diffusion rate of steel samples, which were alloyed with chrome, nickel and copper, in solutions of sulfuric and hydrochloric acid. They established that the diffusion rate increases sharply when the chrome content in the steel is increased from 5 to 15% and sulfuric acid concentration is also increased. Steel alloyed with 4.8% copper diffuses much more slowly with sulfuric acid concentration increased from 1 to 13N than steel alloyed with the same quantity of chrome. A steel alloyed with chrome (4.65%), nickel (5.9%) and copper (5.3%) diffuses much more slowly than one alloyed with chrome only.

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Card

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L 18857-63

ACCESSION NR: AP3006180

A 4.94% nickel admixture into the steel greatly lowers the diffusion rate in sulfuric acid. This reduction is somewhat increased with rise in sulfuric acid concentration. Introduction of ChM inhibitor into the sulfuric acid concentration lowers the diffusion rate of a steel alloyed with chrome and nickel. The diffusion rate of a steel in a 3N solution of hydrochloric acid rises sharply with an increase in the percentage content of chrome from 5 to 15%, and it decreases with the same amount of nickel content. Introduction of an 0.8% content of PB-5 inhibitor into the acid solution retards the diffusion of steels alloyed with chrome as well as with nickel. Orig. art. Has: 5 figures and 7 tables.

ASSOCIATION: None

SUBMITTED: 29Jan63

DATE ACQ: 25Sep63

ENCL: 00

SUB CODE: ML, CR

NO REF SCV: 002

OTHER: 000

2/2

Card

SOV/86-59-4-42/48

**AUTHOR:** Smirnov, K. S., Engr-Maj

**TITLE:** An Experiment proved by Life (Opyt, proverennyy zhizn'yu)

**PERIODICAL:** Vestnik vozdushnogo flota, 1959, Nr 4, pp 84 and 85 (USSR)

**ABSTRACT:** The article describes a method used for the prevention of damage to the thermal insulation of an aircraft battery container. When some electrolyte escapes occasionally from the battery (during sharp maneuvers for instance) and falls on the felt insulation of the container, the insulation is damaged by corrosion. Because of damaged insulation the temperature of electrolyte drops and this in turn lowers the voltage and capacity of the battery. If at normal temperature of electrolyte several engine starts can be made from the 12-SAM-28 battery, only one start is possible at a temperature of -15°C. Sen Engr-Lt L. S. Sharapov of an air force unit suggested that for the protection of thermal insulation of the battery, the felt should be covered with a layer of acid resistant chlorovinyl. One diagram. ✓

Card 1/1

SMIRNOV, K.S., inzhener-podpolkovnik

New calibrating equipment. Vest. Vozd. Fl. no.11:58-59 N '61.  
(MIRA 15:2)

(Testing machines) (Aeronautical instruments--Testing)

SMIRNOV, K. S., Cand Agr Sci -- (diss) "Harvesting of Grass in  
Leningradskaya Oblast under Conditions of <sup>Incliment</sup> ~~Bad~~ Weather." Len,  
1957. 16 pp (Min of Agriculture USSR, Len Agricultural Inst,  
Chair of Meadow Cultivation), 120 copies (KL, 48-57, 108)

- 49 -



SMIRNOV, K.S.

Effect of various methods of harvesting on the quality of sweet  
clover seeds. *Leskovale* 1968:17. (MLPA 16:9)  
(Sweet clover)

SMIRNOV, K.S. (Penza)

Some peculiarities in the formation of conditioned pupillary  
responses in man. Vop.psikhol. 5 no.2:117-130 Mr-Apr '59.  
(MIRA 12:6)

(Conditioned response) (Pupil (Eye))

SMIRNOV, K. S. and AGAPOV, G. M.

"Reaching Advanced Production," Tekst. prom., 12, No.4, 1952

SMIRNOV, K. V., Cand of Agric Sci -- (diss) <sup>Development</sup> "~~Hybridization~~ of Large Seedless  
Grapes for Uzbek SSR," Michurinsk, 1957, 17 pp (Fruit and Vegetable  
Institute im I. V. Michurin) (KL, 5-60, 129)

SMIRNOV, K.V.

Developing monoecious grape varieties for the production of table  
grapes and raisins. Biul. nauch.-tekhn. inform. TSGL no.4:20-23  
'57. (MIRA 12:1)

(Grape breeding)

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82548

Author : Smirnov, K.V.

Inst :

Title : Growing Monoecious Grape Varieties for the Table and Raisins

Orig Pub : Sots. s.-kh. Uzbekistana, 1957, No 10, 72-75

Abstract : At the Samarkand Affiliate of the Uzbek Institute of Fruit Growing and Viticulture, a number of combinations were tried of crossing varieties with the functionally female types of flower with monoecious varieties and of monoecious with monoecious varieties to obtain high quality varieties of kishmish (currant) and table-raisin tendencies with the monoecious type of the flower. The study of the sex of the flower of hybrid seedlings obtained from crossing varieties with the functionally female type of flower - Nimrang, Katta-Kurgana and Charasa

Card 1/2

- 154 -

USSR/Human and Animal Physiology - (Normal and Pathological).  
Action of Physical Factors. Ionizing Radiation.

T

Abs Jour : Ref Zhur Biol., No 4, 1959, 18072

Author : Smirnov, K.V.

Inst :

Title : Secretory Function of the Small Intestine in Acute Radiation Sickness

Orig Pub : Med. radiologiya, 1958, 3, No 3, 46-51

Abstract : In 25 dogs (D) with sections of small intestine isolated according to Tyry, intestinal secretion was induced by mechanical stimulation (rubber tube). Intestinal juice (LJ) was collected for the duration of 6 hours every other day; the total amount of LJ and activity of enterokinase, alkali phosphatase, peptidases and lipase were determined. The enzyme activity (EA) was determined according to the method of G.K. Shlygin and others. The experiments were conducted for 180-200 days,

Card 1/3

- 130 -

. . USSR/Human and Animal Physiology - (Normal and Pathological). T  
Action of Physical Factors. Ionizing Radiation.

Abs Jour : Ref Zhur Biol., No 4, 1959, 18072

increase of secretion and activity preceded a short phase of their decrease. The periodicity (phased nature) of secretory processes is the result of dysfunctions which take place after x-ray irradiation. In the severe form of acute radiation sickness, early morphological disturbances in the alimentary organs and first of all in the small intestine were observed. The mechanism of disturbances of secretory processes is connected, apparently, with pathologic shifts in the CNS and disturbance of metabolism. -- A.D. Zhuchkiva

Card 3/3

- 131 -

SMIRNOV, K.V.

Mechanism of disorders in the motor and secretory function of the  
small intestine in acute radiation injury. Med. rad. 5 no.12:72  
'60. (MIRA 14:3)

(RADIATION SICKNESS)

(INTESTINES)



SMIRNOV, K.V.; SHATIRNIKOV, V.A.

Effect of external ionizing irradiation on hepatic and intestinal  
participation in lipid metabolism. Vop.med.khim. 6 no.5:464-468  
S-0 '60. (MIRA 14:1)

(LIPID METABOLISM)  
(INTESTINES)

(LIVER)  
(RADIATION SICKNESS)

21.6300  
17.3000

69512

S/020/60/131/04/067/073  
B011/B002

AUTHORS: Smirnov, K. V., Shaternikov, V. A.

TITLE: Acetylcholine Appearing in the Blood Under the Influence of Ionizing Radiation

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 4, pp 961-963 (USSR)

ABSTRACT: This paper is ment to explain the participation of small intestine and liver in the metabolism of acetylcholine in the action of  $\gamma$ -irradiation. The experiments were made with three dogs angiotomized according to Ye. S. London's method (modification by the authors). Isolated sections of the small intestine were used as tubules. Stomata were fixed at vena portae and hepatica. 18 hours after feeding, blood was taken from arteria femoralis and the two veins mentioned. For 5 minutes, 2 ml of this blood were extracted with 8 ml of Ringer's solution (pH of 7.6) and eserine ( $2 \cdot 10^{-5}$ ) under heating by means of a boiling bath. The extract was tested in a muscle of the back of the leech. The difference between the muscle contraction in the experiment and in the control (control with addition of active cholinesterase) corresponded to the contraction achieved under the action of acetylcholine contained in the blood. It was found that the arterial peripheral blood flowing off from intestine and liver in all three dogs not exposed

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69512

Acetylcholine Appearing in the Blood Under the  
Influence of Ionizing RadiationS/020/60/131/04/067/073  
B011/B002

to irradiation, contained only traces of acetylcholine. After this has been found out, animals not treated before, were completely exposed to  $\gamma$ -rays of  $\text{Co}^{60}$  (dose of 300 r, dose intensity of 450-460 r/min). Table 1 gives the amounts of acetylcholine contained in the individual blood vessels. Already 2 hours after irradiation on empty stomach, acetylcholine appeared in the blood of intestines and livers of all dogs examined. Acetylcholine however, was completely stored by the liver. On the second day even more acetylcholine was secreted by the intestine into the blood stream, its concentration in the vena portae increased up to 10-15  $\mu\text{g}\%$ . In two dogs, acetylcholine not only penetrated the liver, but was also found in the arterial blood. Six days after irradiation, the content of acetylcholine in the vena portae become somewhat lower in two of the dogs, while the liver of one of them, still let it pass. This dog soon died. Another dog showed such an escape of acetylcholine on the 9th day after irradiation. The vena portae of all dogs contained acetylcholine until the observation was terminated. The constant transportation of acetylcholine into the liver cannot be ineffective. A certain favorable influence on the metabolism of the liver seems quite possible. A negative influence is also possible, but special investigations are necessary to find this out.

X

Card 2/3

SMIRNOV, K. V., Cand Med Sci -- "Secretion<sup>ory</sup> and motor functions  
of the small intestines in acute radiation<sup>sickness</sup> ~~disease~~." Mos,  
1961. (Acad Med Sci USSR) (KL, 8-61, 522)

- 522 -